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# Charbel Soufia

## Summary

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Focused and quick-learning Computer and Communications Engineering graduate with diverse knowledge and experience in programming languages for different purposes, as well as microprocessor and microcontroller programming. A passionate and explorer of IOT, drones, Computer Vision, and Artificial Intelligence.

## Skills

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- C #, C++, Python, MATLAB with interest in OpenCV, and VHDL.
- Microprocessor programming using Flowcode V7, and Proteus
- Microcontroller programming using Arduino IDE
- SQL Database Programming with organized Enhanced Entity Relationship models, Relational models, and Queries.
- Innovative, Determined, Problem Solver
- Advanced in English, Arabic with good knowledge in French.

## Experience

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**VR Intern**, July, 2019 - December, 2019

**BMW Group**, Munich - Germany

- Worked and implemented the UI for the Rolls Royce Blueprint.
- Developed app features using C# using the MVC Software Design Pattern (Model, View, Controller).
- Applied Unity Engine Tools (Physics Engine, Ray Casting, Collision, Event System).
- Handled Data Serialization and De-serialization using json.
- Extended my knowledge in optimizing the code.
- Communicated with the design team through daily meetings to discuss design issues and look for possible solutions.

**Database Intern**, June, 2018 - August, 2018

**Brains**, Jdeideh - Lebanon

- Created windows forms using C# for the database application (Front-End).
- Structured the relationship models of the database entities in order to eliminate redundant data, maintain high accuracy and integrity, and provide quick access to the data.
- Programmed the database using Microsoft Visual Studio's SQL Server Data Tool.
- Implemented extra features and queries that fit the clients' needs (companies, supermarkets).

## **Tutoring, 2015 - 2019**

- Tutored university students on C ++ and mathematics.

## **Education**

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Bachelor of Engineering: **Computer and Communications Engineering** - 2020

Notre Dame University (NDU), Zouk Mosbeh-Lebanon

## **Professional Development**

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**Google GDG Workshops**, April, 2018

**Notre Dame University**, Zouk Mosbeh - Lebanon

- Extended my knowledge on User Experience Design which focuses on what users need, then on building a user friendly and efficient user interface.
- Learned how to send some data to Google's Firebase for Internet of Things projects.
- Got briefly introduced to Android Studio, as well as Google's Dialogflow.

**AUB Hackathon Build it Weekend 2.0**, February, 2018

**American University of Beirut**, Beirut - Lebanon

- Built a security door that unlocks with a secret knock programmed to the Arduino.
- Improved my researching skills and my ability to solve engineering problems efficiently.

**IEEE Member**, September, 2015 - September, 2019

- Attended IEEE technical workshops and events.
- Attended the MOU signing between Alfa, Ericsson, Nokia and the IEEE.
- Had the chance to interact with students and graduates from other universities around the world.

**AUB Hackathon Build it Weekend 1.0**, February, 2017

**American University of Beirut**, Beirut-Lebanon

- Got introduced to microcontroller programming with Arduino.
- Built a smart automated house that changes as the environment changes.

**Cisco Networking Webinar**, October, 2016

- Grasped important networking concepts.
- Learned how networks are optimized in performance and security.

## **Volunteering Experience**

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**Scouts Member and Scout Chief Assistant**, September, 2010 - September, 2015

- Led a group of scouts members through organizing camps, and facilitating informative sessions.
- Built my leadership skills, and allowed me to become an expert in outdoor camping and survival matters.

**SOS National Association**, February , 2014

- Organized the group visit, and spent time with the kids.
- Donated gathered items from public donations.

## Awards

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### **Dean's Honor List Award**, Fall 2015 - Spring, 2016

- Awarded two times for academic recognition and excellence.

### **LAU Competition**, May, 2013

- Awarded first place in the annual chemistry LAU competition.